



CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory
NABL - Accredited Laboratory as per ISO / IEC-17025 :2005



Job No.: CTCE/BBMP/KRIDL/W.No.02/CSR-03/309b/CEMENT/2017-18

Date: 01.04.2017

TEST REPORT ON CEMENT

* Customer	:	Asst. Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
* Agency	:	Technical Manager (West), KRIDL, Bangalore.
* Name of Work	:	Construction of CC roads and drains Main and Cross Road of Kote Bheedhi in Ward No.02 of Yelahanka Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE(YNK.D)/W.O/137/2016-17 Dated: 31.03.2017
* Sample ID	:	Cement
Sample Received on	:	31.03.2017
Period of Testing	:	31.03.2017 to 01.04.2017

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988 (RA-2014)	28.50 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	180 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	485 Minutes	Not More than 600 Minutes
3	Soundness by Le Chatelier Method	IS-4031 (Part-3) 1988 (RA-2014)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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VIDYARANI P.K.
Technical Manager

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No.: CTCE/BBMP/KRIDL/W.No.02/CSR-03/309b/SAND-Gradation/2017-18

01.04.2017

TEST REPORT ON SIEVE ANALYSIS OF FINE AGGREGATES

Customer	: Asst. Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Agency	: Technical Manager (West), KRIDL, Bangalore.
Name of Work	: Construction of CC roads and drains Main and Cross Road of Kote Bheedhi in Ward No.02 of Yelahanka Sub Division, BBMP, Bangalore.
* Reference	: BBMP/EE(YNK.D)/W.O/137/2016-17 Dated: 31.03.2017
* Sample ID	: Fine Aggregates (Manufactured Sand)
Technical Reference	: IS : 2386 (Part 1) - 1963 (RA-2011)
Sample Received On	: 31.03.2017
Date of Testing	: 01.04.2017

Total Wt. of Aggregates in gms = 1000

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	96.80	90-100	90-100	90-100	95-100
2.36	80.80	60-95	75-100	85-100	95-100
1.18	61.80	30-70	55-90	75-100	90-100
600 Micron	29.20	15-34	35-59	60-79	80-100
300 Micron	14.30	5-20	8-30	12-40	15-50
150 Micron	5.00	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-I specific limits.

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Job No.: CTCE/BBMP/KRIDL/W.No.02/CSR-03/309b/AGG/GR/2017-18

01.04.2017

TEST REPORT ON SIEVE ANALYSIS OF COARSE AGGREGATES

* Customer	: Asst. Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
* Agency	: Technical Manager (West), KRIDL, Bangalore.
* Name of Work	: Construction of CC roads and drains Main and Cross Road of Kote Bheedhi in Ward No.02 of Yelahanka Sub Division, BBMP, Bangalore.
* Reference	: BBMP/EE(YNK.D)/W.O/137/2016-17 Dated: 31.03.2017
* Sample ID	: Coarse Aggregates (40mm)
Technical Reference	: IS : 2386 (Part 1) -1963 (RA-2011)
Sample Received on	: 31.03.2017
Date of Testing	: 01.04.2017



Total Wt. of Aggregates in gms= 5000

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	96.36	95-100	85-100
20	36.36	30-70	0-20
10	13.84	10-35	0-5
4.75	3.32	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under graded specific limits.

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Job No.: CTCE/BBMP/KRIDL/W.No.02/Steel/2017-18

03.04.2017

TEST REPORT ON REINFORCEMENT STEEL

* Customer	: Asst. Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
* Agency	: Technical Manager (West), KRIDL, Bangalore.
* Name of work	: Construction of CC roads and drains Main and Cross Road of Kote Bheedhi in Ward No.02 of Yelahanka Sub Division, BBMP, Bangalore.
* Reference	: BBMP/EE(YNK.D)/W.O/137/2016-17 Dated: 31.03.2017
* Samples ID	: 8mm Bar
Technical Reference	: IS: 1786-2008
Date of Testing	: 03.04.2017



Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	8	0.39	511	513	13.15	O.K	O.K

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Job No.: CTCE/BBMP/KRIDL/W.No.02/Steel/2017-18

03.04.2017

TEST REPORT ON REINFORCEMENT STEEL

* Customer	: Asst. Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
* Agency	: Technical Manager (West), KRIDL, Bangalore.
* Name of work	: Construction of CC roads and drains Main and Cross Road of Kote Bheedhi in Ward No.02 of Yelahanka Sub Division, BBMP, Bangalore.
* Reference	: BBMP/EE(YNK.D)/W.O/137/2016-17 Dated: 31.03.2017
* Samples ID	: 10 mm Bar
Technical Reference	: IS: 1786-2008
Date of Testing	: 03.04.2017

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	10	0.62	512	514	13.4	O.K	O.K

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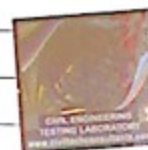


Job No.: CTCE/BBMP/KRIDL/W.No.02/CSR-03/309b/Cube/2017-18

04.05.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	: Asst. Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
* Agency	: Technical Manager (West), KRIDL, Bangalore.
* Name of the work	: Construction of CC roads and drains Main and Cross Road of Kote Bheedhi in Ward No.02 of Yelahanka Sub Division, BBMP, Bangalore.
* Reference	: BBMP/EE(YNK.D)/W.O/137/2016-17 Dated: 31.03.2017
* Sample ID	: RCC Drain Concrete
Technical Reference	: IS: 516-1959 (RA-2013)
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm ²
* Grade of Concrete	: M ₂₀
Compressive Strength as on	: 28 th day
Sample Received on	: 04.05.2017



SLNo.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	06.04.2017	04.05.2017	8.123	489.3	21.75
2	06.04.2017	04.05.2017	8.235	512.6	22.78
3	06.04.2017	04.05.2017	8.327	528.3	23.48

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Job No.: CTCE/BBMP/KRIDL/W.No.02/CSR-03/309b/Pre Slab/2017-18

10.04.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CORE

* Customer	:	Asst. Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
* Agency	:	Technical Manager (West), KRIDL, Bangalore.
* Name of work	:	Construction of CC roads and drains Main and Cross Road of Kote Bheedhi in Ward No.02 of Yelahanka Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE(YNK.D)/W.O/137/2016-17 Dated: 31.03.2017
* Sample ID	:	Precast slab (100mm thick)
* Grade of Concrete	:	M ₂₀
Technical Reference	:	IS:516-1959 (RA- 2013), SP-24:1983.
Sample Received on	:	05.04.2017
Date of Testing	:	10.04.2017



Sl. No	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m ³)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm ²)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm ²)	Equivalent Cube Compressive Strength (N/mm ²)
1	50.00	79.00	0.392	2527.14	1.58	0.955	30.25	15.41	16.64	17.43	21.79
2	50.00	81.00	0.399	2508.75	1.62	0.959	33.15	16.88	18.23	17.49	21.86
3	50.00	82.00	0.412	2558.90	1.64	0.961	33.95	17.29	18.67	17.95	22.43

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11.04.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CORE

* Customer	:	Asst. Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
* Agency	:	Technical Manager (West), KRIDL, Bangalore.
* Name of work	:	Construction of CC roads and drains Main and Cross Road of Kote Bheedhi in Ward No.02 of Yelahanka Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE(YNK.D)/W.O/137/2016-17 Dated: 31.03.2017
* Sample ID	:	Precast slab (250mm thick)
* Grade of Concrete	:	M ₂₀
Technical Reference	:	IS:516-1959 (RA- 2013), SP-24:1983.
Sample Received on	:	05.04.2017
Date of Testing	:	11.04.2017



SL No	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m ³)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm ²)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm ²)	Equivalent Cube Compressive Strength (N/mm ²)
1	50.00	78.00	0.391	2553.01	1.56	0.952	32.25	16.42	17.74	18.62	23.28
2	50.00	79.00	0.399	2572.27	1.58	0.955	33.55	17.09	18.45	17.62	22.02
3	50.00	80.00	0.396	2521.01	1.60	0.957	32.85	16.73	18.07	17.29	21.61

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Job No.: CTCE/BBMP/KRIDL/W.No.02/GSB-2/2017-18

15.04.2017

TEST REPORT ON GRADATION FOR CLOSE-GRADED GRANULAR SUB BASE

* Customer	: Asst. Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
* Agency	: Technical Manager (West), KRIDL, Bangalore.
* Name of work	: Construction of CC roads and drains Main and Cross Road of Kote Bheedhi in Ward No.02 of Yelahanka Sub Division, BBMP, Bangalore.
* Reference	: BBMP/EE(YNK.D)/W.O/137/2016-17 Dated: 31.03.2017
* Sample ID	: Close Graded-II
Technical Reference	: IS : 2720 (Part - 4) 1985 (RA-2010), MORTH Table : 400-1
Date of Testing	: 15.04.2017



Oven Dry Wt (gm) : 5000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Specified Limits
53	0	0	0	100	100
26.5	330	330	6.60	93.40	70-100
9.5	1825	2155	43.10	56.90	50-80
4.75	650	2805	56.10	43.90	40-65
2.36	630	3435	68.70	31.30	30-50
0.425	520	3955	79.10	20.90	15-25
0.075	785	4740	94.80	5.20	3-10
PAN	260				
Total	5000				

* Information is furnished by the Customer/Representative

Remarks: Satisfies MORTH Specifications as per Table 400-1, Grading II

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Job No.: CTCE/BBMP/KRIDL/W.No.02/GSB-II/AL/2017-18

Date : 15.04.2017

ATTERBERG LIMITS TEST FOR GSB MORTH TABLE-400-01

- * **Customer** : Asst. Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
- * **Agency** : Technical Manager (West), KRIDL, Bangalore.
- * **Name of Work** : Construction of CC roads and drains Main and Cross Road of Kote Bheedhi in Ward No.02 of Yelahanka Sub Division, BBMP, Bangalore.
- * **Reference** : BBMP/EE(YNK.D)/W.O/137/2016-17 Dated: 31.03.2017

Date of Testing : 15.04.2017

Sample Source : GSB, Mix Plant



SL No.	Particulars	Test Results	Standards as per Specifications
1	Liquid Limit, %	22.50	25.0% Maximum.
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

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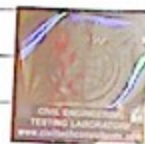


Job No.: CTCE/BBMP/KRIDL/W.No.02/CSR-03/309b/DLC/2017-18

25.04.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	: Asst. Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
* Agency	: Technical Manager (West), KRIDL, Bangalore.
* Name of the work	: Construction of CC roads and drains Main and Cross Road of Kote Bheedhi in Ward No.02 of Yelahanka Sub Division, BBMP, Bangalore.
* Reference	: BBMP/EE(YNK.D)/W.O/137/2016-17 Dated: 31.03.2017
* Sample ID	: Dry Lean Concrete
Technical Reference	: IS: 516-1959 (RA-2013)
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm ²
* Grade of Concrete	: Dry Lean Concrete
Compressive Strength as on	: 7 th day
Sample Received on	: 25.04.2017



Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	18.04.2017	25.04.2017	8.123	259.3	11.52
2	18.04.2017	25.04.2017	8.235	263.2	11.70
3	18.04.2017	25.04.2017	8.305	238.5	10.60

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Job No.: CTCE/BBMP/KRIDL/W.No.02/CSR-03/309b/DLC/2017-18

25.04.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	: Asst. Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
* Agency	: Technical Manager (West), KRIDL, Bangalore.
* Name of the work	: Construction of CC roads and drains Main and Cross Road of Kote Bheedhi in Ward No.02 of Yelahanka Sub Division, BBMP, Bangalore.
* Reference	: BBMP/EE(YNK.D)/W.O/137/2016-17 Dated: 31.03.2017
* Sample ID	: Dry Lean Concrete
Technical Reference	: IS: 516-1959 (RA-2013)
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm ²
* Grade of Concrete	: Dry Lean Concrete
Compressive Strength as on	: 7 th day
Sample Received on	: 25.04.2017



Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	18.04.2017	25.04.2017	8.205	268.3	11.92
2	18.04.2017	25.04.2017	8.325	264.2	11.74
3	18.04.2017	25.04.2017	8.415	232.5	10.33

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CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

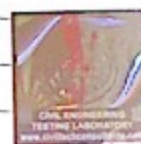
Job No.: CTCE/BBMP/KRIDL/W.No.02/CSR-03/309b/Cube/2017-18



26.04.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	: Asst. Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
* Agency	: Technical Manager (West), KRIDL, Bangalore.
* Name of the work	: Construction of CC roads and drains Main and Cross Road of Kote Bheedhi in Ward No.02 of Yelahanka Sub Division, BBMP, Bangalore.
* Reference	: BBMP/EE(YNK.D)/W.O/137/2016-17 Dated: 31.03.2017
* Sample ID	: Road Concrete
Technical Reference	: IS: 516-1959 (RA-2013)
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm ²
* Grade of Concrete	: M ₃₀
Compressive Strength as on	: 7 th day
Sample Received on	: 26.04.2017



Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	19.04.2017	26.04.2017	8.168	502.3	22.32
2	19.04.2017	26.04.2017	8.208	512.4	22.77
3	19.04.2017	26.04.2017	8.328	525.6	23.36

*Information is furnished by the Customer/Representative.

Note:

- ⇒The report shall not be reproduced, except in full, without the written approval of the laboratory.
- ⇒The results indicated above are based on the tests carried out on the samples received in the laboratory.
- ⇒Any Query regarding the report must be reported within 30 days from the date of testing.

[Signature]

[Signature]

[Signature]
VIDYARANI P.K.
Technical Manager



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